

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-214283

(43)Date of publication of application : 11.08.1998

(51)Int.Cl.

G06F 17/60

(21)Application number : 09-016730

(71)Applicant : TSUBASA SYST KK

(22)Date of filing : 30.01.1997

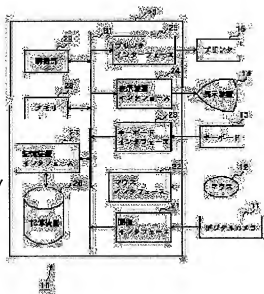
(72)Inventor : MICHIKAWA KENICHI

(54) ACCIDENT CAR REPAIR COST ESTIMATE SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an accident car repair cost estimate system by which repair work items or parts can easily and quickly be selected.

SOLUTION: Car model specification data for specifying the car model of an accident car to be estimated are inputted by a keyboard 13. Estimate data being data for estimating the repair costs of the accident car are held corresponding to the car model specification data of the accident car which is repaired in the past. The estimate data are read from the storage device 26 based on the inputted car model specification data by a control part 29. The estimate data read by the control part 29 are displayed on a display device 14. Selection data for selecting the estimate data displayed on the display device are inputted by a mouse 12. The repair costs of the accident car to be estimated is estimated based on the estimate data selected by the selection data.



LEGAL STATUS

[Date of request for examination] 30.01.1997

[Date of sending the examiner's decision of rejection] 03.07.2001

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection] 2001-13662

[Date of requesting appeal against examiner's decision of rejection] 02.08.2001

[Date of extinction of right]

* NOTICES *

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] The data input means for inputting the type-of-a-car specification data which specify the type of a car of the accident vehicle which is a candidate for estimated, An estimated data-hold means to make said type-of-a-car specification data of the accident vehicle by which repair was performed in the past correspond, and to hold the estimated data which are data about the repair cost estimate of the accident vehicle concerned, The estimated data read-out means which reads said estimated data from said estimated data-hold means based on said type-of-a-car specification data inputted by said data input means, A display means to display the contents of said estimated data read by said estimated data read-out means, The select data input means for inputting the select data which chooses said estimated data displayed on said display means, The accident vehicle repair cost estimated system characterized by having a repair cost estimated means to perform the repair cost estimate of the accident vehicle which is a candidate for estimated based on said estimated data chosen by said select data.

[Claim 2] The data input means for inputting the damage part data in which the type-of-a-car specification data and the damage part which specify the type of a car of the accident vehicle which is a candidate for estimated are shown, An estimated data-hold means to make said type-of-a-car specification data and said damage part data of the accident vehicle by which repair was performed in the past correspond, and to hold the estimated data which are data about the repair cost estimate of the accident vehicle concerned, The estimated data read-out means which reads said estimated data from said estimated data-hold means based on said type-of-a-car specification data inputted by said data input means, and said damage part data, A display means to display the contents of said estimated data read by said estimated data read-out means, The select data input means for inputting the select data which chooses said estimated data displayed on said display means, The accident vehicle repair cost estimated system characterized by having a repair cost estimated means to perform the repair cost estimate of the accident vehicle which is a candidate for estimated based on said estimated data chosen by said select data.

[Claim 3] The data input means for inputting data whenever [type-of-a-car specification data / which specify the type of a car of the accident vehicle which is a candidate for estimated /, damage part data / in which a damage part is shown /, and damage / which shows whenever / damage], An estimated data-hold means to make data correspond whenever [said type-of-a-car specification data / of the accident vehicle by which repair was performed in the past /, said damage part data, and said damage], and to hold the estimated data which are data about the repair cost estimate of the accident vehicle concerned, Said type-of-a-car specification data inputted by said data input means, said damage part data, and the estimated data read-out means which reads said estimated data from said estimated data-hold means based on data whenever [said damage], A display means to display the contents of said estimated data read by said estimated data read-out means, The select data input means for inputting the select data which chooses said estimated data displayed on said display means, The accident vehicle repair cost estimated system characterized by having a repair cost estimated means to perform the repair cost estimate of the accident vehicle which is a candidate for estimated based on said estimated data chosen by said select data.

[Claim 4] An image input means to picturize the image of the accident vehicle which is a candidate for estimated, and to change into an image data, An image-data maintenance means to make data correspond whenever [said type-of-a-car specification data / of the accident vehicle by which repair was performed in the past /, said damage part data, and said damage], and to hold the image data of the accident vehicle concerned, It has further said type-of-a-car specification data inputted by said type-of-a-car specification data input means, said damage part data, and the image-data read-out means which reads an image data from said image-data

maintenance means based on data whenever [said damage]. Said display means Furthermore, the accident vehicle repair cost estimated system according to claim 3 characterized by displaying the image based on said image data inputted by said image input means, and the image based on said image data read by said image-data read-out means.

[Claim 5] In the accident vehicle repair cost estimated system which consists of two or more terminal units and a processor in which the data exchange is possible between said terminal units said terminal unit The data input means for inputting data whenever [type-of-a-car specification data / which specify the type of a car of the accident vehicle which is a candidate for estimated /, damage part data / in which a damage part is shown /, and damage / which shows whenever / damage], The type-of-a-car damage data transmitting means for transmitting data to said processor whenever [said type-of-a-car specification data / which were inputted by said data input means /, said damage part data, and said damage], The estimated data receiving means for receiving the estimated data which are data about the repair cost estimate of the accident vehicle by which repair was performed in the past from said processor, A display means to display the contents of said estimated data received by said estimated data receiving means, The select data input means for inputting the select data which chooses said estimated data displayed on said display means, It has a select data transmitting means to transmit said select data to said processor. Said processor An estimated data-hold means to make data correspond whenever [said type-of-a-car specification data / of the accident vehicle by which repair was performed in the past /, said damage part data, and said damage], and to hold the estimated data which are data about the repair cost estimate of the accident vehicle concerned, The type-of-a-car damage data receiving means for receiving data from said terminal unit whenever [said type-of-a-car specification data, said damage part data, and said damage], Said type-of-a-car specification data received by said type-of-a-car damage data receiving means, said damage part data, and the estimated data read-out means which reads said estimated data from said estimated data-hold means based on data whenever [said damage], An estimated data transmitting means to transmit said estimated data read by said estimated data read-out means to said terminal unit, The accident vehicle repair cost estimated system characterized by having a select data receiving means for receiving said select data from said terminal unit, and a repair cost estimated means to perform the repair cost estimate of the accident vehicle which is a candidate for estimated based on said estimated data chosen by said select data.

[Claim 6] In the accident vehicle repair cost estimated system which consists of two or more terminal units and a processor in which the data exchange is possible between said terminal units said terminal unit The data input means for inputting data whenever [type-of-a-car specification data / which specify the type of a car of the accident vehicle which is a candidate for estimated /, damage part data / in which a damage part is shown /, and damage / which shows whenever / damage], An image input means to pictureize the image of the accident vehicle which is a candidate for estimated, and to change into an image data, The type-of-a-car damage data transmitting means for transmitting data to said processor whenever [said type-of-a-car specification data / which were inputted by said data input means /, said damage part data, and said damage], The estimated data receiving means for receiving the estimated data which are data about the repair cost estimate of the accident vehicle by which repair was performed in the past, and the image data of the accident vehicle concerned from said processor, The image based on the contents and said image data of said estimated data received by said estimated data receiving means, A display means to display the image based on said image data inputted by said image input means, The select data input means for inputting the select data which chooses said estimated data displayed on said display means, It has a select data transmitting means to transmit said select data to said processor. Said processor An estimated data-hold means to make data correspond whenever [said type-of-a-car specification data / of the accident vehicle by which repair was performed in the past /, said damage part data, and said damage], and to hold the estimated data which are data about the repair cost estimate of the accident vehicle concerned, An image-data maintenance means to make data correspond whenever [said type-of-a-car specification data / of the accident vehicle by which repair was performed in the past /, said damage part data, and said damage], and to hold the image data of the accident vehicle concerned, The type-of-a-car damage data receiving means for receiving data from said terminal unit whenever [said type-of-a-car specification data, said damage part data, and said damage], Said type-of-a-car specification data received by said type-of-a-car damage data receiving means, said damage part data, and the estimated data read-out means which reads said estimated data from said estimated data-hold means based on data whenever [said damage], The image-data read-out means which reads an image data from said image-data maintenance means based on said type-of-a-car specification data inputted by said type-of-a-car specification data input means, and said damage part data, An estimated data transmitting means to transmit said image data read by said estimated data obtained by said

estimated data read-out means, and said image-data read-out means to said terminal unit, The accident vehicle repair cost estimated system characterized by having a select data receiving means for receiving said select data from said terminal unit, and a repair cost estimated means to perform the repair cost estimate of the accident vehicle which is a candidate for estimated based on said estimated data chosen by said select data.

[Translation done.]

* NOTICES *

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the accident vehicle repair cost estimated system for doing the repair cost estimated activity of an accident vehicle.

[0002]

[Description of the Prior Art] The accident vehicle repair cost estimated system for inputting the data about an accident vehicle and performing a repair cost estimate in the repair cost estimated activity of an accident vehicle, conventionally, was used. The item data about all the cars currently actually used for such an accident vehicle repair cost estimated system at home, components data, etc. are held. And the repair cost estimated operator was doing the accident vehicle repair cost estimated activity by carrying out the input of the select data which chooses the repair work item which suited whenever [type-of-a-car / of the accident vehicle which is a candidate for estimated /, damage part, and damage] etc., and components etc. to such an accident vehicle repair cost estimated system.

[0003]

[Problem(s) to be Solved by the Invention] However, there were the following faults in such a conventional accident vehicle repair cost estimated system. That is, in order to choose a repair work item and components at every accident vehicle repair cost estimated activity, considerable time amount and a considerable effort were required.

[0004] The 1st technical problem of this invention is offering the accident vehicle repair cost estimated system which can perform selection of a repair work item or components easily and quickly in view of the trouble of such a conventional technique.

[0005] Moreover, if the image in which the damage situation of an accident vehicle that repair was performed in the past is shown, and the image in which the damage situation of the accident vehicle which is a candidate for estimated is shown can be seen by comparison, an accident vehicle repair cost estimated activity can be done more easily.

[0006] The 2nd technical problem of this invention is offering the accident vehicle repair cost estimated system which can see by comparison the image in which the damage situation of an accident vehicle repair having been performed in the past is shown, and the image in which the damage situation of the accident vehicle which is a candidate for estimated is shown.

[0007] Moreover, repair is performed in that the data about the repair cost estimate of the accident vehicle by which repair was performed in the past can be accumulated on a host computer, and it can access from a terminal unit, then the past, and the data about the repair cost estimate of the accident vehicle of many reliance can be used.

[0008] The 3rd technical problem of this invention is offering the accident vehicle repair cost estimated system which the data about the repair cost estimate of the accident vehicle by which repair was performed in the past can be made to be able to hold to a host computer, and can be accessed from a terminal unit.

[0009]

[Means for Solving the Problem] This invention adopted the following means, in order to solve said technical problem. The data input means for inputting the type-of-a-car specification data which specify the type of a car of the accident vehicle which is a candidate for estimated, in order that invention of the 1st of this application may solve the 1st technical problem mentioned above, An estimated data-hold means to make said type-of-a-car specification data of the accident vehicle by which repair was performed in the past correspond, and to hold the

estimated data which are data about the repair cost estimate of the accident vehicle concerned, The estimated data read-out means which reads said estimated data from said estimated data-hold means based on said type-of-a-car specification data inputted by said data input means, A display means to display the contents of said estimated data read by said estimated data read-out means, The select data input means for inputting the select data which chooses said estimated data displayed on said display means, It is characterized by having a repair cost estimated means to perform the repair cost estimate of the accident vehicle which is a candidate for estimated based on said estimated data chosen by said select data (it corresponds to claim 1).

[0010] Here, a data input means and a select data input means are a mouse, a keyboard, etc., an estimated data-hold means is a hard disk etc., and display means are [an estimated data read-out means and a repair cost estimated means are CPUs (Central Processing Unit) etc., and] CRT (Cathode Ray Tube), a liquid crystal display, etc.

[0011] According to invention of the 1st of this application, the type-of-a-car specification data which specify the type of a car of the accident vehicle which is a candidate for estimated with a data input means are inputted. Said type-of-a-car specification data of the accident vehicle by which repair was performed in the past are made to correspond with an estimated data-hold means, and the estimated data which are data about the repair cost estimate of the accident vehicle concerned are held. By the estimated data read-out means, said estimated data are read from said estimated data-hold means based on said type-of-a-car specification data inputted by said data input means. By the display means, said estimated data read by said estimated data read-out means are displayed. The select data which chooses said estimated data displayed on said display means with a select data input means is inputted. Based on said estimated data chosen by said select data, the repair cost estimate of the accident vehicle which is a candidate for estimated is performed by the repair cost estimated means.

[0012] Thus, since the data about the repair cost estimate of the accident vehicle by which it is the same type of a car as the accident vehicle which is a candidate for estimated, and repair was performed in the past can be chosen, a repair cost estimated activity can be done easily and quickly.

[0013] Moreover, the data input means for inputting the damage part data in which the type-of-a-car specification data and the damage part which specify the type of a car of the accident vehicle which is a candidate for estimated are shown, in order that invention of the 2nd of this application may solve the 1st technical problem mentioned above, An estimated data-hold means to make said type-of-a-car specification data and said damage part data of the accident vehicle by which repair was performed in the past correspond, and to hold the estimated data which are data about the repair cost estimate of the accident vehicle concerned, The estimated data read-out means which reads said estimated data from said estimated data-hold means based on said type-of-a-car specification data inputted by said data input means, and said damage part data, A display means to display the contents of said estimated data read by said estimated data read-out means, The select data input means for inputting the select data which chooses said estimated data displayed on said display means, It is characterized by having a repair cost estimated means to perform the repair cost estimate of the accident vehicle which is a candidate for estimated based on said estimated data chosen by said select data (it corresponds to claim 2).

[0014] Moreover, the data input means for inputting data whenever [type-of-a-car specification data / which specify the type of a car of the accident vehicle which is a candidate for estimated / , damage part data / in which a damage part is shown / , and damage / which shows whenever / damage], in order that invention of the 3rd of this application may solve the 1st technical problem mentioned above, An estimated data-hold means to make data correspond whenever [said type-of-a-car specification data / of the accident vehicle by which repair was performed in the past / , said damage part data, and said damage], and to hold the estimated data which are data about the repair cost estimate of the accident vehicle concerned, Said type-of-a-car specification data inputted by said data input means, said damage part data, and the estimated data read-out means which reads said estimated data from said estimated data-hold means based on data whenever [said damage], A display means to display the contents of said estimated data read by said estimated data read-out means, The select data input means for inputting the select data which chooses said estimated data displayed on said display means, It is characterized by having a repair cost estimated means to perform the repair cost estimate of the accident vehicle which is a candidate for estimated based on said estimated data chosen by said select data (it corresponds to claim 3).

[0015] Moreover, in order that invention of the 4th of this application may solve the 1st and 2nd technical problems mentioned above, An image input means to picturize the image of the accident vehicle which is a

candidate for estimated, and to change into an image data, An image-data maintenance means to make data correspond whenever [said type-of-a-car specification data / of the accident vehicle by which repair was performed in the past / , said damage part data, and said damage], and to hold the image data of the accident vehicle concerned, It has further said type-of-a-car specification data inputted by said type-of-a-car specification data input means, said damage part data, and the image-data read-out means which reads an image data from said image-data maintenance means based on data whenever [said damage]. Said display means Furthermore, it supposes that the image based on said image data inputted by said image input means and the image based on said image data read by said image-data read-out means are also displayed, and invention according to claim 3 is specified (it corresponds to claim 4).

[0016] Here, an image input means is a digital camera etc., an image-data maintenance means is a hard disk etc., and an image-data read-out means is CPU etc. According to invention of the 4th of this application, by the image input means, the image of the accident vehicle which is a candidate for estimated is picturized, and it is changed into an image data. By the image-data maintenance means, data are made to correspond whenever [said type-of-a-car specification data / of the accident vehicle by which repair was performed in the past / , said damage part data, and said damage], and the image data of the accident vehicle concerned is held. By the image-data read-out means, an image data is read from said image-data maintenance means based on data whenever [said type-of-a-car specification data / which were inputted by said type-of-a-car specification data input means / , said damage part data, and said damage]. The image based on said image data further inputted by said image input means with the display means and the image based on said image data read by said image-data read-out means are also displayed.

[0017] Thus, since the image of the accident vehicle which is a candidate for estimated, and the image of the accident vehicle by which repair was performed in the past are displayed, an estimated operator can use the data about the repair cost estimate of the accident vehicle reconditioned in the near past by damage on the accident vehicle which is a candidate for estimated.

[0018] Moreover, in order that invention of the 5th of this application may solve the 1st and 3rd technical problems mentioned above, In the accident vehicle repair cost estimated system which consists of two or more terminal units and a processor in which the data exchange is possible between said terminal units said terminal unit The data input means for inputting data whenever [type-of-a-car specification data / which specify the type of a car of the accident vehicle which is a candidate for estimated / , damage part data / in which a damage part is shown / , and damage / which shows whenever / damage], The type-of-a-car damage data transmitting means for transmitting data to said processor whenever [said type-of-a-car specification data / which were inputted by said data input means / , said damage part data, and said damage], The estimated data receiving means for receiving the estimated data which are data about the repair cost estimate of the accident vehicle by which repair was performed in the past from said processor, A display means to display said estimated data received by said estimated data receiving means, The select data input means for inputting the select data which chooses said estimated data displayed on said display means, It has a select data transmitting means to transmit said select data to said processor. Said processor An estimated data-hold means to make data correspond whenever [said type-of-a-car specification data / of the accident vehicle by which repair was performed in the past / , said damage part data, and said damage], and to hold the estimated data which are data about the repair cost estimate of the accident vehicle concerned, The type-of-a-car damage data receiving means for receiving data from said terminal unit whenever [said type-of-a-car specification data, said damage part data, and said damage], Said type-of-a-car specification data received by said type-of-a-car damage data receiving means, said damage part data, and an estimated data read-out means to obtain said estimated data from said estimated data-hold means based on data whenever [said damage], An estimated data transmitting means to transmit said estimated data read by said estimated data read-out means to said terminal unit, It is characterized by having a select data receiving means for receiving said select data from said terminal unit, and a repair cost estimated means to perform the repair cost estimate of the accident vehicle which is a candidate for estimated based on said estimated data chosen by said select data (it corresponds to claim 5).

[0019] Here, a terminal unit and a processor are computers etc. Moreover, the data input means of a terminal unit and a select data input means are a mouse, a keyboard, etc., a type-of-a-car damage data transmitting means, an estimated data receiving means, and a select data transmitting means are modems etc., and indicating equipments are CRT, a liquid crystal display, etc. Furthermore, the estimated data-hold means of a processor is a hard disk etc., a type-of-a-car damage data receiving means, an estimated data transmitting means, and a

select data receiving means are modems etc., and an estimated data read-out means and a repair cost estimated means are CPUs etc.

[0020] According to invention of the 5th of this application, data are inputted whenever [type-of-a-car specification data / which specify the type of a car of the accident vehicle which is a candidate for estimated with the data input means of a terminal unit /, damage part data / in which a damage part is shown /, and damage / which shows whenever / damage]. By the type-of-a-car damage data transmitting means, data are transmitted to said processor whenever [said type-of-a-car specification data / which were inputted by said data input means /, said damage part data, and said damage]. The estimated data which are data about the repair cost estimate of the accident vehicle by which repair was performed in the past are received from said processor by the estimated data receiving means. By the display means, said estimated data received by said estimated data receiving means are displayed. The select data which chooses said estimated data displayed on said display means with a select data input means is inputted. By the select data transmitting means, said select data is transmitted to said processor. Data are made to correspond with the estimated data-hold means of a processor whenever [type-of-a-car specification data / of the accident vehicle by which repair was performed in the past /, damage part data, and damage], and the estimated data which are data about the repair cost estimate of the accident vehicle concerned are held. Data are received from said terminal unit by the type-of-a-car damage data receiving means whenever [said type-of-a-car specification data, said damage part data, and said damage]. By the estimated data read-out means, said estimated data are read from said estimated data-hold means based on data whenever [said type-of-a-car specification data / which were received by said type-of-a-car damage data receiving means /, said damage part data, and said damage]. By the estimated data transmitting means, said estimated data read by said estimated data read-out means are transmitted to said terminal unit. Said select data is received from said terminal unit by the select data receiving means. Based on said estimated data chosen by said select data, the repair cost estimate of the accident vehicle which is a candidate for estimated is performed by the repair cost estimated means.

[0021] Thus, since the data about the repair cost estimate of the accident vehicle by which it is the same type of a car as the accident vehicle which is a candidate for estimated, and repair was performed in the past can be chosen, a repair cost estimated activity can be done easily and quickly. Moreover, since the data about the repair cost estimate of the accident vehicle by which repair was performed in the past are held at a processor and accessed from a terminal unit, repair is performed and the data about the repair cost estimate of an accident vehicle can be used for the past of many reliance.

[0022] Moreover, in order that invention of the 6th of this application may solve the 1st thru/or the 3rd technical problem mentioned above, In the accident vehicle repair cost estimated system which consists of two or more terminal units and a processor in which the data exchange is possible between said terminal units said terminal unit The data input means for inputting data whenever [type-of-a-car specification data / which specify the type of a car of the accident vehicle which is a candidate for estimated /, damage part data / in which a damage part is shown /, and damage / which shows whenever / damage], An image input means to pictureize the image of the accident vehicle which is a candidate for estimated, and to change into an image data, The type-of-a-car damage data transmitting means for transmitting data to said processor whenever [said type-of-a-car specification data / which were inputted by said data input means /, said damage part data, and said damage]. The estimated data receiving means for receiving the estimated data which are data about the repair cost estimate of the accident vehicle by which repair was performed in the past, and the image data of the accident vehicle concerned from said processor, The image based on the contents and said image data of said estimated data received by said estimated data receiving means, A display means to display the image based on said image data inputted by said image input means, The select data input means for inputting the select data which chooses said estimated data displayed on said display means, It has a select data transmitting means to transmit said select data to said processor. Said processor An estimated data-hold means to make data correspond whenever [said type-of-a-car specification data / of the accident vehicle by which repair was performed in the past /, said damage part data, and said damage], and to hold the estimated data which are data about the repair cost estimate of the accident vehicle concerned, An image-data maintenance means to make data correspond whenever [said type-of-a-car specification data / of the accident vehicle by which repair was performed in the past /, said damage part data, and said damage], and to hold the image data of the accident vehicle concerned, The type-of-a-car damage data receiving means for receiving data from said terminal unit whenever [said type-of-a-car specification data, said damage part data, and said damage], Said type-of-a-car specification data received by said type-of-a-car

damage data receiving means, said damage part data, and the estimated data read-out means which reads said estimated data from said estimated data-hold means based on data whenever [said damage], The image-data read-out means which reads an image data from said image-data maintenance means based on said type-of-a-car specification data inputted by said type-of-a-car specification data input means, and said damage part data, An estimated data transmitting means to transmit said image data read by said estimated data read by said estimated data read-out means, and said image-data read-out means to said terminal unit, It is characterized by having a select data receiving means for receiving said select data from said terminal unit, and a repair cost estimated means to perform the repair cost estimate of the accident vehicle which is a candidate for estimated based on said estimated data chosen by said select data (it corresponds to claim 6).

[0023] Here, a terminal unit and a processor are computers etc. Moreover, the data input means of a terminal unit and a select data input means are a mouse, a keyboard, etc., an image input means is a digital camera etc. and indicating equipments are [a type-of-a-car damage data transmitting means, an estimated data receiving means, and a select data transmitting means are modems etc., and] CRT, a liquid crystal display, etc. Furthermore, the estimated data-hold means of a processor and an image-data maintenance means are hard disks etc., a type-of-a-car damage data receiving means, an estimated data transmitting means, and a select data receiving means are modems etc., and an estimated data read-out means, an image-data read-out means, and a repair cost estimated means are CPUs etc.

[0024] According to invention of the 6th of this application, data are inputted whenever [type-of-a-car specification data / which specify the type of a car of the accident vehicle which is a candidate for estimated with the data input means of a terminal unit /, damage part data / in which a damage part is shown /, and damage / which shows whenever / damage]. By the image input means, the image of the accident vehicle which is a candidate for estimated is picturized, and it is changed into an image data. By the type-of-a-car damage data transmitting means, data are transmitted to said processor whenever [said type-of-a-car specification data / which were inputted by said data input means /, said damage part data, and said damage]. The estimated data which are data about the repair cost estimate of the accident vehicle by which repair was performed in the past, and the image data of the accident vehicle concerned are received from said processor by the estimated data receiving means. By the display means, the image based on the contents and said image data of said estimated data received by said estimated data receiving means and the image based on said image data inputted by said image input means are displayed. The select data which chooses said estimated data displayed on said display means with a select data input means is inputted. By the select data transmitting means, said select data is transmitted to said processor. Data are made to correspond with the estimated data-hold means of a processor whenever [type-of-a-car specification data / of the accident vehicle by which repair was performed in the past /, damage part data, and damage], and the estimated data which are data about the repair cost estimate of the accident vehicle concerned are held. By the image-data maintenance means, data are made to correspond whenever [said type-of-a-car specification data / of the accident vehicle by which repair was performed in the past /, said damage part data, and said damage], and the image data of the accident vehicle concerned is held. Data are received from said terminal unit by the type-of-a-car damage data receiving means whenever [said type-of-a-car specification data, said damage part data, and said damage]. By the estimated data read-out means, said estimated data are read from said estimated data-hold means based on data whenever [said type-of-a-car specification data / which were received by said type-of-a-car damage data receiving means /, said damage part data, and said damage]. By the image-data read-out means, said image data is read from said image-data maintenance means based on data whenever [said type-of-a-car specification data / which were received by said type-of-a-car damage data receiving means /, said damage part data, and said damage]. By the estimated data transmitting means, said image data read by said estimated data obtained by said estimated data read-out means and said image-data read-out means is transmitted to said terminal unit. Said select data is received from said terminal unit by the select data receiving means. Based on said estimated data chosen by said select data, the repair cost estimate of the accident vehicle which is a candidate for estimated is performed by the repair cost estimated means.

[0025] Thus, since the data about the repair cost estimate of the accident vehicle by which it is the same type of a car as the accident vehicle which is a candidate for estimated, and repair was performed in the past can be chosen, a repair cost estimated activity can be done easily and quickly. Moreover, since the image of the accident vehicle which is a candidate for estimated, and the image of the accident vehicle by which repair was performed in the past are displayed, an estimated operator can use the data about the repair cost estimate of the

accident vehicle reconditioned in the near past by damage on the accident vehicle which is a candidate for estimated. Furthermore, since the data about the repair cost estimate of the accident vehicle by which repair was performed in the past are held at a processor and accessed from a terminal unit, repair is performed and the data about the repair cost estimate of an accident vehicle can be used for the past of many reliance.

[0026]

[Embodiment of the Invention] Hereafter, the gestalt of operation of this invention is explained based on the drawing of drawing 1 thru/or drawing 11.

[0027]

[The gestalt of the 1st operation] Drawing 1 shows the accident vehicle repair cost estimated system 10 by the gestalt of operation of the 1st of this invention. As shown in this drawing 1, the accident vehicle repair cost estimated system 10 consists of a digital camera 11, a mouse 12, the keyboard 13, a display 14, a printer 15, and a body 20 of a computer. Moreover, the body 20 of a computer consists of storage 26 connected to the bus B1 by the bus B1 through the storage interface 27 with the image interface 21 connected mutually, a mouse interface 22, a keyboard interface 23, the display interface 24, a printer interface 25, the storage interface 27, memory 28, and a control section 29. Moreover, the printer 15 is connected [the digital camera 11 / the mouse 12 / the keyboard 13] with the bus B1 for the display 14 through the printer interface 25 through the display interface 24 through the keyboard interface 23 through the mouse interface 22 through the image interface 21, respectively.

[0028] A digital camera 11 is equipment which captures the image of an accident vehicle, changes into an image data, and transmits the image data concerned to a bus B1. This digital camera 11 is equivalent to an image input means.

[0029] A mouse 12 and a keyboard 13 are equipment for an operator to do an entry of data etc. This mouse 12 and keyboard 13 are equivalent to a data input means and a select data input means.

[0030] An indicating equipment 14 is equipment for displaying the estimated data of an accident vehicle, the image data from a digital camera 11, etc. This display 14 is equivalent to a display means.

[0031] A printer 15 is equipment for printing an alphabetic character, an image, etc. The body 20 of a computer is equipment for performing program execution etc. The image interface 21 is equipment for receiving an image data from a digital camera 11, and transmitting to a bus B1.

[0032] A mouse interface 22 is equipment which receives the data inputted by the user from a mouse 12, and is transmitted to a bus B1. A keyboard interface 23 is equipment which receives input data from a keyboard 13 and is transmitted to a bus B1.

[0033] The display interface 24 is equipment for displaying an alphabetic character, an image, etc. on a display 14. A printer interface 25 is equipment for making a printer 15 print an alphabetic character, an image, etc.

[0034] A store 26 is a hard disk drive unit which memorizes the image data file which picturized the signs of damage on an accident vehicle that repair was performed in the program and accident vehicle database which a control section 29 processes, an activity components database, a work-index database, the components master data base, and the past. the category model-designation data of the accident vehicle by which repair was performed in the past with an accident vehicle database here, model data, form data, and a under carriage -- it is the database which uses as a record the type-of-a-car specification data which consist of number data, the damage part data in which the damage part of the accident vehicle concerned is shown, and the accident vehicle data which consist of data and estimated number data of the repair-cost estimate of the accident vehicle concerned whenever [damage / which shows whenever / damage / on the accident vehicle concerned]. Moreover, said estimated number data of the repair cost estimate of the accident vehicle by which repair was performed in the past with the activity components database, The activity parts code data which take which value of the parts code data in which said damage part data in which the damage part of the accident vehicle concerned is shown, the activity code data in which an activity required for repair of the accident vehicle concerned is shown, or components required for repair of the accident vehicle concerned are shown, It is the database which uses as a record the activity components data which consist of code partition data in which it is shown any of activity code data and parts code data the data shown with said activity parts code data are.

Furthermore, a work-index database is a database which uses as a record said activity code data, the activity name data of the activity shown with the activity code data concerned, and the work-index data of the activity shown with the activity code data concerned. It is data in which the multiplier to the predetermined activity unit price (liver rate) of the activity indicated to be work-index data with the activity code data concerned is shown

here. Moreover, it is the database which uses as a record the components name data of the components indicated to be the components master data bases with said parts code data and the parts code data concerned, and the components amount-of-money data of the components shown with the parts code data concerned. Furthermore, the image data file is memorized by storage 26 by making into a file name the estimated number of the repair cost estimate of the accident vehicle which the image data which is the contents shows. This store 26 is equivalent to an estimated data-hold means and an image-data maintenance means.

[0035] The store interface 27 is equipment which reads the writing of the data to a store 26, and the data from a store 26. Memory 28 is memory which consists of RAM etc. and is used for the working-level month of a control section 29.

[0036] A control section 29 consists of CPUs (Central Processing Unit) etc., performs screen-display directions to the display interface 24, and performs printing directions to a printer interface 25. Moreover, a control section 29 performs the data write-in directions to a store 26, and the data read-out directions from a store 26 to the store interface 27. Furthermore, a control section 29 receives [an image data] a keyboard 13 to input data for a mouse 12 to input data from a digital camera 11 through reception and a keyboard interface 23 through reception and a mouse interface 22 through the image interface 21. Moreover, a control section 29 processes the screen data displayed on processing of data, such as an alphabetic character inputted from the mouse 12 and the keyboard 13, and an indicating equipment 14. This control section 29 is equivalent to an estimated data read-out means, an image-data read-out means, and a repair cost estimated means.

The flow chart of drawing 2 thru/or drawing 3 explains <explanation of actuation of the gestalt of the 1st operation>, next the contents of control realized when a control section 29 performs the program stored in storage 26.

[0037] If the data which direct initiation of an accident vehicle repair cost estimated activity are received from a keyboard 13, a control section 29 will start the control shown in drawing 2 thru/or drawing 3. By S001 of the beginning, a control section 29 waits to input type-of-a-car specification data from a keyboard 13 after a start. In addition, either or the both sides of data may be added to the data inputted here whenever [damage part data / as an option /, and damage].

[0038] In the following S002, a control section 29 waits to input the image data of the accident vehicle which is the object of an estimate from a digital camera 11 through the image interface 21.

[0039] In the following S003, a control section 29 searches the accident vehicle database in a store 25 with the type-of-a-car specification data inputted by S001, and obtains corresponding accident vehicle data. When the data into which the control section 29 was inputted in S001 at this time are only type-of-a-car specification data, an accident vehicle database is searched only with type-of-a-car specification data. Moreover, a control section 29 searches an accident vehicle database also using these data, when either or the both sides of data is inputted whenever [damage part data and damage] in S001.

[0040] In the following S004, a control section 29 reads the image data file which makes a file name the estimated number which becomes settled with the estimated number data in all the accident vehicle data obtained by S003 from storage 26.

[0041] A control section 29 makes a display 14 indicate the contents of all the accident vehicle data obtained by S003 by list in the following S005. Furthermore, a control section 29 makes the image based on the image data inputted as the image based on the contents of the image data file read by S004 by S002 contrast, and is displayed on a display 14.

[0042] In the following S006, a control section 29 waits to input the select data of the purport which chooses the accident vehicle data displayed on the display screen of an indicating equipment 14 from a mouse 12 or a keyboard 13.

[0043] In the following S007, with the estimated number data in the accident vehicle data chosen by S006, a control section 29 searches an activity components database, and obtains activity components data. A control section 29 makes a display 14 indicate the contents of the activity components data obtained in S007 by list in the following S008.

[0044] In the following S009, a control section 29 waits to input the select data of the purport which chooses either or all from a mouse 12 or a keyboard 13 out of all the activity components data by which it was indicated by the list on the display screen of an indicating equipment 14.

[0045] In the following S010, when the value of the code partition data in the activity components data chosen in S009 is 0, with activity parts code data, a control section 29 searches a work-index database, and obtains

activity name data and work-index data. Moreover, when the value of the code partition data in the activity components data chosen by S009 is 1, with activity parts code data, a control section 29 searches the components master data base, and obtains components name data and components amount-of-money data. A control section 29 performs the above retrieval processings about all the activity components data chosen in S009.

[0046] In the following S011, a control section 29 computes the total activity amount of money from each work-index data of the retrieval results obtained by S010. Specifically, a control section 29 computes each activity amount-of-money data by multiplying a predetermined activity unit price (liver rate) by each work-index data obtained by S010. And total of each [these] activity amount-of-money data is computed, and it considers as the total activity amount-of-money data. In the following S012, a control section 29 computes total with each part article amount-of-money data of the retrieval results obtained by S010, and the total activity amount-of-money data computed by S011, and is taken as repair cost estimated amount-of-money data.

[0047] A control section 29 makes a printer 15 print a repair cost estimate in the following S013 based on the activity name data obtained by S010 thru/or S012, activity amount-of-money data, components name data, components amount-of-money data, and repair cost estimated amount-of-money data. Furthermore, a control section 29 displays the contents of the repair cost estimate on a display 14.

[0048] In the following S014, a control section 29 adds data to an accident vehicle database and an activity components database according to the contents of the type-of-a-car specification data inputted by S001, the accident vehicle data chosen by S006, and the activity components data chosen by S009. Moreover, a control section 29 writes the image data inputted by S002 in storage 26 as an image data file. And the after treatment is ended.

[0049] Thus, since the data about the repair cost estimate of the accident vehicle which is the object of a repair cost estimated activity, and the accident vehicle of the past when a type of a car, a damage part, etc. are the same can be used according to this operation gestalt, a repair cost estimated activity can be done easily and quickly. Moreover, since a repair cost estimated activity can be done contrasting the image of an accident vehicle which fixed in the past, and the image of the accident vehicle which is the object of a repair cost estimated activity, the data about the repair cost estimate of the past accident vehicle can be used more exactly.

[0050]

[The gestalt of the 2nd operation] Drawing 4 shows the accident vehicle repair cost estimated system 40 by the gestalt of operation of the 2nd of this invention. As shown in this drawing 4, the accident vehicle repair cost estimated system 40 consists of host computers 70 connected through Channel C to two or more terminal unit 50 and each [these] terminal unit 50, respectively. A terminal unit 50 is equipment for being installed in each fixing place and performing the input of the type-of-a-car data of an accident vehicle, an image data, etc. A host computer 70 is equipment which performs retrieval of a database etc. at each fixing space based on the data received from maintenance of the data of an accident vehicle fixed in the past, and a terminal unit 50.

[0051] Drawing 5 is the block diagram showing the circuitry of a terminal unit 50. As shown in drawing 5, the terminal unit 50 consists of a digital camera 51, a mouse 52, the keyboard 53, a display 54, a printer 55, and a body 60 of a computer. Moreover, the body 60 of a computer consists of storage 67 connected with the image interface 61 connected mutually, a mouse interface 62, a keyboard interface 63, the display interface 64, a printer interface 65, a communication interface 66, the storage interface 68, memory 69, and a control section 70 by bus B-2 through the storage interface 68 at bus B-2. Moreover, the printer 55 is connected [the digital camera 51 / the mouse 52 / the keyboard 53] with bus B-2 for the display 54 through the printer interface 55 through the display interface 64 through the keyboard interface 63 through the mouse interface 62 through the image interface 61, respectively.

[0052] A digital camera 51 is equipment which captures the image of an accident vehicle, changes into an image data, and transmits the image data concerned to bus B-2. This digital camera 51 is equivalent to an image input means.

[0053] A mouse 52 and a keyboard 53 are equipment for an operator to do an entry of data etc. This mouse 52 and keyboard 53 correspond to a data input means and a select data input means.

[0054] An indicating equipment 54 is equipment for displaying the data of an accident vehicle, the image data from a digital camera 51, etc. This display 54 is equivalent to a display means. A printer 55 is equipment for printing an alphabetic character, an image, etc.

[0055] The body 60 of a computer is equipment for performing program execution etc. The image interface 61

is equipment for receiving an image data from a digital camera 51, and transmitting to bus B-2.

[0056] A mouse interface 62 is equipment which receives the data inputted by the user from a mouse 52, and is transmitted to bus B-2. A keyboard interface 63 is equipment which receives input data from a keyboard 53 and is transmitted to bus B-2.

[0057] The display interface 64 is equipment for displaying an alphabetic character, an image, etc. on a display 54. A printer interface 65 is equipment for making a printer 55 print an alphabetic character, an image, etc.

[0058] A communication interface 66 is equipment for performing transmission and reception of a host computer 80 and data through Channel C. This communication interface 66 is equivalent to a type-of-a-car damage data transmitting means, an estimated data receiving means, and a select data transmitting means.

[0059] A store 67 is a hard disk which memorizes the program which a control section 70 processes. The store interface 68 is equipment which reads the writing of the data to a store 67, and the data from a store 67.

[0060] Memory 69 is memory which consists of RAM etc. and is used for the working-level month of a control section 70. A control section 70 consists of CPUs etc., performs screen-display directions to the display interface 64, and performs printing directions to a printer interface 65. Moreover, a control section 70 performs the data write-in directions to a store 67, and the data read-out directions from a store 67 to the store interface 68. Furthermore, a control section 70 receives [an image data] a keyboard 53 to input data for a mouse 52 to input data from a digital camera 51 through reception and a keyboard interface 63 through reception and a mouse interface 62 through the image interface 61. Moreover, a control section 70 processes the screen data displayed on processing of data, such as an alphabetic character inputted from the mouse 52 and the keyboard 53, and an indicating equipment 54.

[0061] Drawing 6 is the block diagram showing the circuitry of the host computer 80 used for the accident vehicle repair estimated system 40 of this operation gestalt. As shown in drawing 6, the host computer 80 consists of the mouse 81, a keyboard 82, a display 83, and a body 90 of a computer. This host computer 60 is equivalent to the processor as used in the field of this invention.

[0062] The body 90 of a computer consists of storage 95 connected to the bus B3 by the bus B3 through the storage interface 96 with the mouse interface 91 connected mutually, a keyboard interface 92, the display interface 93, a communication interface 94, the storage interface 96, memory 97, and a control section 98.

[0063] A mouse 81 is equipment for a user to input directions data etc. A keyboard 82 is equipment for a user to input data, such as an alphabetic character. An indicating equipment 83 is CRT which displays the data inputted from the keyboard 82.

[0064] The body 90 of a computer is equipment which performs processing of a mouse 81 and the input data from a keyboard 82, the display directions to an indicating equipment 83, data reception from Channel C, data transmitting processing to Channel C, etc.

[0065] A mouse interface 91 is equipment which transmits the input data from a mouse 81 to a bus B3. A keyboard interface 92 is equipment which transmits the input data from a keyboard 82 to a bus B3. [0066] The display interface 93 is equipment for displaying an alphabetic character, an image, etc. on a display 83. A communication interface 94 is equipment which transmits and receives data between terminal units 50 through Channel C. This communication interface 94 is equivalent to a type-of-a-car damage data receiving means, an estimated data transmitting means, and a select data receiving means.

[0067] A store 95 is a hard disk drive unit which memorizes the image data file which picturized the signs of damage on an accident vehicle that repair was performed in the program and accident vehicle database which a control section 98 processes, an activity components database, a work-index database, the components master data base, and the past. Here, since an accident vehicle database, an activity components database, a work-index database, the components master data base, and an image data file are the same as that of the gestalt of the 1st operation, the explanation is omitted. This store 95 is equivalent to an estimated data-hold means and an image-data maintenance means.

[0068] The store interface 96 is equipment which reads the writing of the data to a store 95, and the data from a store 95. Memory 97 is memory to consist of RAM etc. and for a control section 98 use it for a working-level month.

[0069] A control section 98 consists of CPUs etc., performs screen-display directions to the display interface 93, and performs data transmitting directions to a communication interface 94. Moreover, a control section 98 receives a communication interface 94 to reception and received data for input data from a mouse interface 91 and a keyboard interface 92. Furthermore, a control section 98 performs processing of input data, such as an

alphabetic character received from the mouse interface 91 and the keyboard interface 92, processing of the screen data displayed on an indicating equipment 83, processing of the transmit data transmitted from a communication interface 94, processing of the received data received from a communication interface 94, read-out processing of the data from a store 95, and write-in processing of the data to a store 95. This control section 98 is equivalent to an estimated data read-out means, an image-data read-out means, and a repair cost estimated means.

The flow chart of drawing 7 thru/or drawing 11 explains the contents of control realized when the contents and the control section 98 of <explanation of actuation of the gestalt of the 2nd operation>, next the control realized when a control section 70 performs the program stored in storage 67 perform the program stored in storage 95. [0070] If the data which direct initiation of an accident vehicle repair cost estimated activity are received from the keyboard 53 of a terminal unit 50, the control section 70 of a terminal unit 50 will start processing of drawing 7 thru/or drawing 9.

[0071] By S101 of the beginning, the control section 70 of a terminal unit 50 waits to input type-of-a-car specification data from a keyboard 53 after a start. In addition, either or the both sides of data may be added to the data inputted here whenever [damage part data / as an option /, and damage].

[0072] In the following S102, a control section 70 waits to input the image data of the accident vehicle which is the object of an estimate from a digital camera 51 through the image interface 61.

[0073] In the following S103, a control section 70 transmits the type-of-a-car specification data inputted by S101, and the directions data of a purport with which an accident vehicle database is searched with the type-of-a-car specification data concerned to a host computer 80 through a communication interface 66 and Channel C.

[0074] And in the following S104, a control section 70 waits to receive a retrieval result from a host computer 80. On the other hand, the control section 98 of a host computer 80 which was standing by in S201 will move processing to S202, if terminal unit 50 empty-vehicle kind specification data and the directions data of a purport with which an accident vehicle database is searched with the type-of-a-car specification data concerned are received through Channel C and a communication interface 94.

[0075] In S202, with the type-of-a-car specification data received in S201, the control section 98 of a host computer 80 searches an accident vehicle database, and obtains accident vehicle data. When the data which the control section 29 received in S201 at this time are only type-of-a-car specification data, an accident vehicle database is searched only with type-of-a-car specification data. Moreover, a control section 29 searches an accident vehicle database also using these data, when either or the both sides of data is received whenever [damage part data and damage] in S201.

[0076] In the following S203, the control section 98 of a host computer 80 reads the contents of the image data file which makes a file name the estimated number which becomes settled with the estimated number data in [all / that was obtained by S202] accident vehicle data from storage 95.

[0077] In the following S204, the control section 98 of a host computer 80 transmits all the image datas read by all the accident vehicle data obtained by S202, and S203 to a terminal unit 50.

[0078] In S205, the control section 98 of a host computer 80 waits to receive activity components database retrieval directions data from a terminal unit 50. On the other hand, the control section 70 of a terminal unit 50 which was standing by in S104 will move processing to S105, if accident vehicle data and an image data are received from a host computer 80.

[0079] The control section 70 of a terminal unit 50 makes a display 54 indicate the contents of all the accident vehicle data received by S104 by list in the following S105. Furthermore, the control section 70 of a terminal unit 50 makes the image based on all the image datas inputted as the image based on all the image datas that received by S104 by S102 contrast, and is displayed on a display 54.

[0080] In the following S106, the control section 70 of a terminal unit 50 waits to input the select data of the purport which chooses either or all from a mouse 52 or a keyboard 53 out of all the accident vehicle data by which it was indicated by the list on the display screen of an indicating equipment 54.

[0081] In the following S107, the control section 70 of a terminal unit 50 transmits the estimated number data in [all / that was chosen by S106] accident vehicle data, and the directions data which direct the purport which searches an activity components database with the estimated number data concerned to a host computer 80.

[0082] In the following S108, the control section 98 of a terminal unit 50 waits to receive a retrieval result from a host computer 80. On the other hand, the control section 98 of a host computer 80 which was standing by in S205 will move processing to S206, if estimated number data and the directions data of a purport with which an

activity components database is searched are received from a terminal unit 50.

[0083] In S206, with all the estimated number data received by S205, the control section 98 of a host computer 80 searches an activity components database, and obtains activity components data.

[0084] In the following S207, the control section 98 of a host computer 80 transmits all the activity components data obtained by S206 to a terminal unit 50. In the following S208, the control section 98 of a host computer 80 waits to receive a work-index database and components master data base retrieval directions data.

[0085] On the other hand, the control section 70 of a terminal unit 50 which was standing by in S108 will move processing to S109, if a retrieval result is received from a host computer 80. The control section 70 of a terminal unit 50 makes a display 14 indicate the contents of all the activity components data received in S108 by list in the following S109.

[0086] In the following S110, the control section 70 of a terminal unit 50 waits to input the select data of the purport which chooses either or all from a mouse 52 or a keyboard 53 out of all the activity components data by which it was indicated by the list on the display screen of an indicating equipment 54.

[0087] In the following S111, the control section 70 of a terminal unit 50 transmits all the activity components data chosen in S110, the directions data of a purport with which a work-index database and the components master data base are searched, and the directions data of the purport which should create repair cost estimate data to a host computer 80.

[0088] In the following S112, the control section 70 of a terminal unit 50 waits to receive repair cost estimate data from a host computer 80. On the other hand, the control section 98 of a host computer 80 which was standing by in S208 will move processing to S209, if activity components data, the directions data of a purport with which a work-index database and the components master data base are searched, and the directions data of the purport which should create repair cost estimate data are received from a terminal unit 50.

[0089] In S209, when the value of the code partition data in each activity components data received in S208 is 0, with the activity parts code data in the activity components data concerned, the control section 98 of a host computer 80 searches a work-index database, and obtains activity name data and work-index data. Moreover, when the value of the code partition data in each activity components data received in S208 is 1, with activity parts code data, a control section 29 searches the components master data base, and obtains components name data and components amount-of-money data. The control section 98 of a host computer 80 performs the above retrieval about all the received activity components data.

[0090] In the following S210, the control section 98 of a host computer 80 computes the total activity amount-of-money data from each work-index data obtained by S209. Specifically, the control section 98 of a host computer 80 computes each activity amount-of-money data by multiplying a predetermined activity unit price (liver rate) by each work-index data obtained by S209. And total of each [these] activity amount-of-money data is computed, and it considers as the total activity amount-of-money data.

[0091] In the following S211, the control section 98 of a host computer 80 computes repair cost estimated amount-of-money data from the total activity amount-of-money data obtained by each part article amount-of-money data obtained by S209, and S210.

[0092] In the following S212, the control section 98 of a host computer 80 creates repair cost estimate data based on the activity name data obtained by S209 thru/or S211, activity amount-of-money data, components name data, components amount-of-money data, and repair cost estimated amount-of-money data, and transmits to a terminal unit 50.

[0093] In the following S213, the control section 98 of a host computer 80 waits to receive the directions data of a purport to which data are added. On the other hand, the control section 70 of a terminal unit 50 which was standing by in S112 will move processing to S113, if repair cost estimate data are received from a host computer 80.

[0094] In S113, the control section 70 of a terminal unit 50 displays the contents on a display 54 while making a printer 55 print the repair cost estimate based on the repair cost estimate data received in S112.

[0095] In the following S114, the control section 70 of a terminal unit 50 transmits the directions data of the purport which adds data to an accident vehicle database and an activity components database according to the contents of the type-of-a-car specification data inputted by S101, the accident vehicle data chosen by S106, and the activity components data chosen by S110, an image data, and the directions data of the purport written in a store 95 by making the image data concerned into an image data file to a host computer 80. And the after treatment is ended.

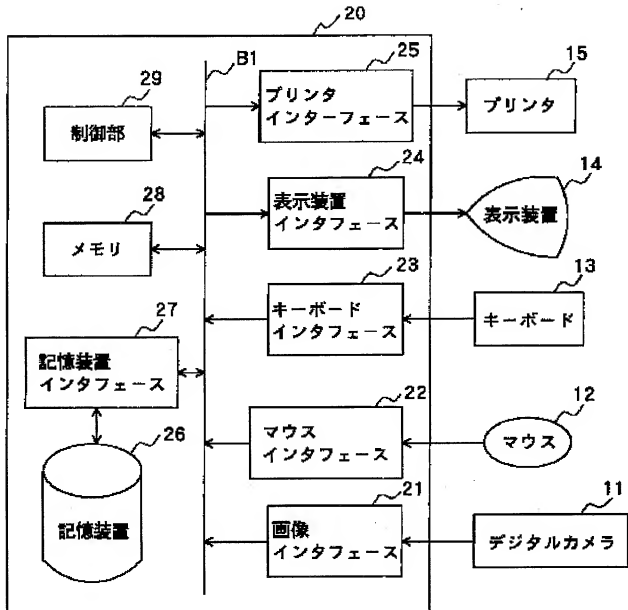
[0096] On the other hand, the control section 98 of a host computer 80 which was standing by in S213 The type-of-a-car specification data inputted by S101, the accident vehicle data chosen by S106, and the directions data of the purport which adds data to an accident vehicle database and an activity components database according to the contents of the activity components data chosen by S110, Reception of an image data and the directions data of the purport written in a store 95 by making the image data concerned into an image data file moves processing to S214.

[0097] In the following S214, the control section 98 of a host computer 80 is written in storage 95 by making an image data into an image data file while it adds data to an accident vehicle database and an activity components database. And the after treatment is ended.

[0098] Since the data about the repair cost estimate of the accident vehicle reconditioned in the past are stored in the storage 95 of a host computer 80 according to this operation gestalt as explained above, a repair cost estimated activity can be done using the data of the past which suited by the accident vehicle which is the object of a repair cost estimated activity.

[0099]
[Effect of the Invention] Since the data about the repair cost estimate of the accident vehicle which is the object of a repair cost estimated activity, and the accident vehicle of the past when a type of a car is the same can be used according to this invention as explained above, a repair cost estimated activity can be done easily and quickly. Moreover, since a repair cost estimated activity can be done contrasting the image of an accident vehicle which fixed in the configuration, then the past like the 4th or the 6th invention, and the image of the accident vehicle which is the object of a repair cost estimated activity, the data about the repair cost estimate of the past accident vehicle can be used more exactly. Furthermore, since the data about the repair cost estimate of the accident vehicle reconditioned in the configuration, then the past like the 5th or the 6th invention are held at the storage means of a processor, a repair cost estimated activity can be done using the data of more past.

[Translation done.]



開始

N

S001

車種特定データが入力されたか？

Y

N

S002

事故車のイメージデータ
が入力されたか？

Y

S003

S 0 0 1 で入力された車種特定データによって
事故車データベースを検索する

S004

S 0 0 3 で得られた事故車データ中の見積番
号をファイル名とするイメージデータファイル
を読み出す

S005

S 0 0 3 で得られた事故車データを表示させ
るとともに、S 0 0 4 で得られたイメージデー
タファイルに基づく画像及び S 0 0 2 で入力さ



S008

S 0 0 7 で得られた作業部品データを表示装置
1 4 に表示させる

S009

N

作業部品データが選択されたか？

Y

S010

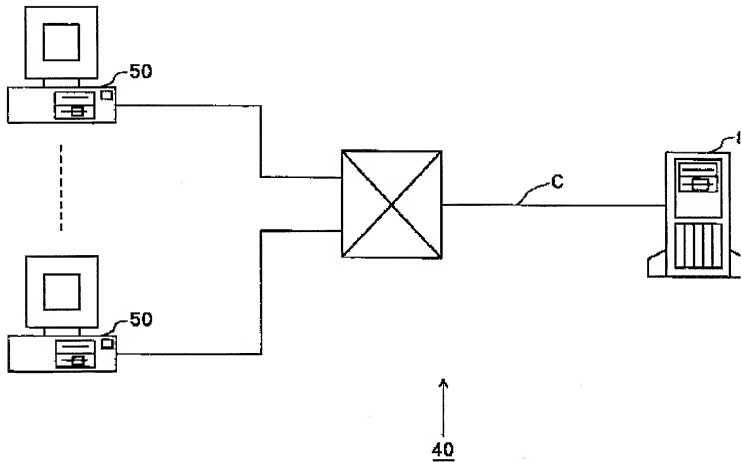
S 0 0 9 で選択された各作業部品データ中の作
業部品コード、コード区分データによって作業
指数データベース、部品マスタデータベースを
を検索する

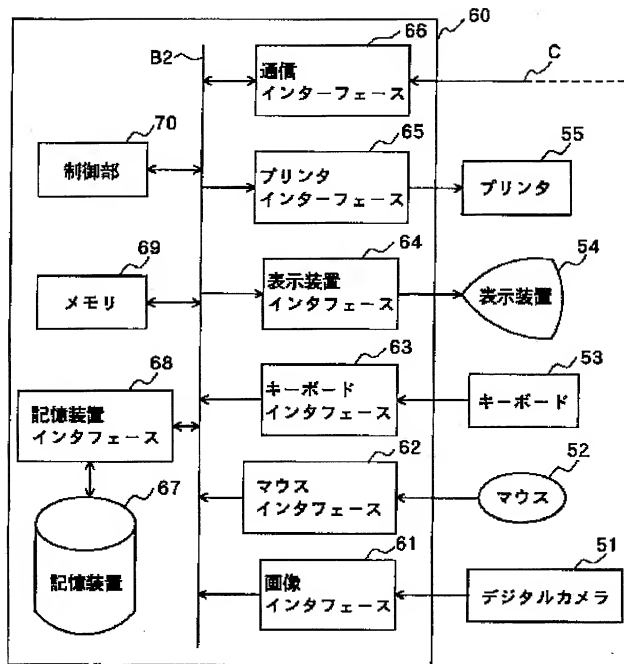
S011

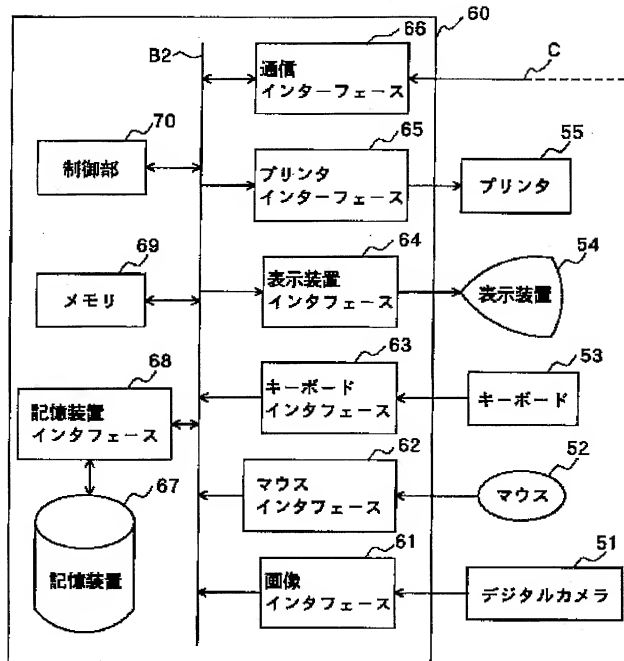
S 0 1 0 で得られた各作業指数データから総作
業金額データを算出する

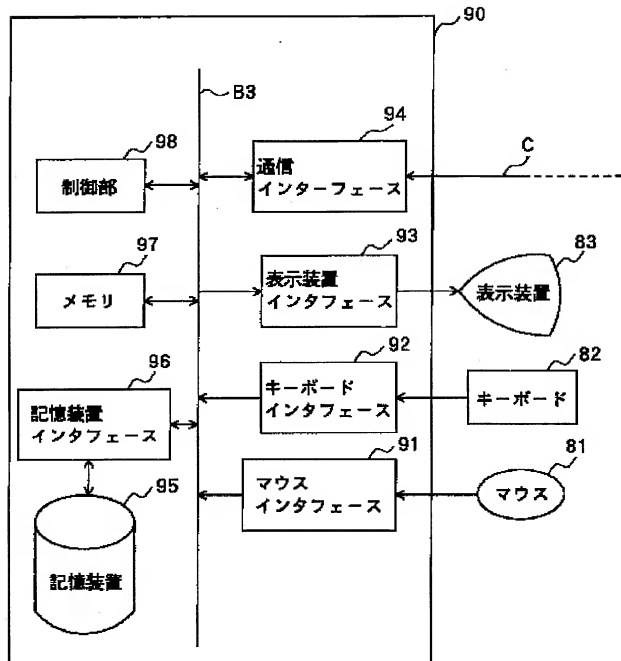
S012

S 0 1 0 で得られた各部品金額データ及び S 0
1 1 で得られた総作業金額データから修理費用









80

開始

N

S101

車種特定データが入力されたか？

Y

N

S102

事故車のイメージデータ
が入力されたか？

Y

S103

S101で入力された車種特定データと、
事故車データベースを検索する旨の指示デー
タとを通信インタフェース66及び通信路Cを
介してホストコンピュータ80に送信する

N

S104

検索結果をホストコンピュータ
80から受信したか？

2

S107

S106で選択された事故車データ中の見積
番号データと、作業部品データベースを検索
する旨の指示データとをホストコンピュータ8
へ送信する

S108

N

検索結果をホストコンピュータ
80から受信したか？

Y

S109

S108で受信した作業部品データを表示装置
14に表示させる

N

S110

作業部品データが選択されたか？

Y

S111

S110で選択された作業部品データ中の作業
部品コードデータ、コード区分データによって

3

S114

各データベースにデータを追加する旨、及び
S002で入力されたイメージデータをイメージデ
ータファイルとして書き込む旨の指示データを
ホストコンピュータ 80 へ送信する

終了

開始

4

S201

N 事故車データベース検索
指示データを受信したか？

Y

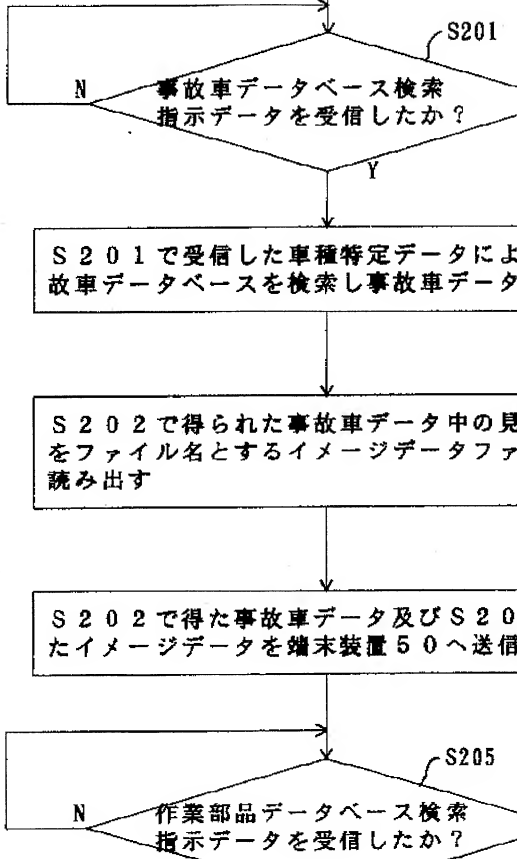
S 2 0 1 で受信した車種特定データによ
故車データベースを検索し事故車データ

S 2 0 2 で得られた事故車データ中の見
をファイル名とするイメージデータファ
読み出す

S 2 0 2 で得た事故車データ及び S 2 0
たイメージデータを端末装置 5 0 へ送信

S205

N 作業部品データベース検索
指示データを受信したか？



5

